



Data Sheet

Product Name: Mouse Anti-Glyceraldehyde-3-Phosphate Dehydrogenase Monoclonal Antibody

Catalog No.: Y3322GAPDH

Clone Number: 1A10A10

Lot No.:

Quantity: 200 µg

Volume: 200 µl

Concentration: 1 mg/ml

Monoclonal: Primary Secondary **Polyclonal:** Primary Secondary

Source Species: Chicken Mouse Rabbit Goat Horse Other _____

Antigen Species: Human Mouse Rabbit Rat Other: _____

Labeling: None HRP AP Biotin Dye Other _____

Description: Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) is a house keeping gene and served as internal control for gene and protein expression. GAPDH is a key enzyme in the biological process of glycolysis which breakdowns a monosaccharide (generally glucose) into simpler components, including pyruvate. It catalyzes of the reaction: D-glyceraldehyde 3-phosphate + phosphate + NAD⁺ = 3-phospho-D-glyceroyl phosphate + NADH + H⁺.

Applications and Suggested Dilutions (Sensitivity):

- Western blot: 1:1,000-1:2,000
- ELISA: 1:1,000,000
- Immunoaffinity purification of GAPDH
- Immunohistochemistry: 1:100-1:200
- Immunoprecipitation: 1:1,000
- Optimal working dilutions must be determined by end user

Source: Mouse monoclonal antibody produced by hybridoma clones.

Isotype: IgG

Format/Reconstitution: Liquid immunoglobulin was purified from ascites by protein G column and stored in PBS with 0.2% BSA and 0.09% sodium azide. No reconstitution is necessary.

Immunogen/Sequence: Glyceraldehyde-3-phosphate dehydrogenase from rabbit muscle.

Mol. Wt. Of Antigen: 36-38 kDa

Protein Specificity: Western blot shows single band of Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) in major organs of human, mouse, rat and rabbit.

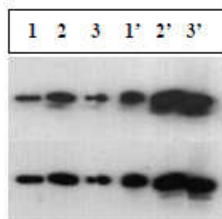
Tissue/cell line Specificity and Cellular Localization: All tissues in Cytoplasmic.

Species Specificity: Human, rat, mouse (weak), rabbit, monkey, chicken, frog, and fish skeletal muscle.

Storage/handling: Maintain at 2-8°C in undiluted aliquots for at least 6 months after date of receipt.

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Western Blot Analysis:



Twenty ug human normal placenta total protein PVDF strips were blotted against commercially available mouse monoclonal anti-GAPDH antibody from another company (Lanes 1-3), BCI (Lanes 1'-3').

1. Competitor's mouse monoclonal anti-GAPDH antibody (0.2 ug/ml)
2. Competitor's mouse anti-GAPDH antibody (0.5 ug/ml)
3. Competitor's mouse anti-GAPDH antibody (1 ug/ml)
- 1' BCI purified mouse monoclonal anti-GAPDH Ascites (0.2 ug/ml)
- 2' BCI purified mouse monoclonal anti-GAPDH Ascites (0.5 ug/ml)
- 3' BCI purified mouse monoclonal anti-GAPDH Ascites (1 ug/ml)

Immunohistochemistry Analysis:



40x Human Colon Tumor

100x Human Colon Tumor

Key Reference:

1. Chen R.W. 1999. Involvement of Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) and p53 in Neuronal Apoptosis: Evidence That GAPDH Is Upregulated by p53. *J. Neurosci.* 19:9654-9662.
2. Rhoads R.P. 2003. The Housekeeping Genes GAPDH and Cyclophilin Are Regulated by Metabolic State in the Liver of Dairy Cows. *J. Dairy Sci.* 86:3423-3429.

Important Note: During shipment, small volumes of antibody will occasionally become entrapped in the seal of the product vial. For antibodies with volumes of 200 μ l or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.